

=> FIL REG

FILE 'REGISTRY' ENTERED AT 16:06:18 ON 29 MAY 2009
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=> D HIS

FILE 'HCAPLUS' ENTERED AT 11:17:39 ON 29 MAY 2009
E US20070092656/PN

L1 1 S E3
SEL L1 RN

FILE 'REGISTRY' ENTERED AT 11:18:13 ON 29 MAY 2009

L2 6 S E1-6
E 4-(4-PHENOXYCARBONYLOXY) BUTYL-2-OXO-1,3-DIOXOLANE/CN
E 4-(4-PHENOXYCARBONYLOXY)BUTYL-2-OXO-1,3-DIOXOLANE/CN

FILE 'LREGISTRY' ENTERED AT 11:30:17 ON 29 MAY 2009

L3 371 S 1,3-DIOXOLANE?/CNS
L4 0 S ?PHENOXYCARBONYLOXL?/CNS
L5 5179 S ?BUTYL?/CNS
L6 7 S L3 AND L5
E C11 H10 O6/MF
L7 8 S E3
L8 371 S 1,3-DIOXOLANE?/CNS
L9 5179 S ?BUTYL?/CNS
L10 7 S L8 AND L9

FILE 'REGISTRY' ENTERED AT 12:33:09 ON 29 MAY 2009

E C12 H14 N2 O3/MF
L11 1 S E3 AND L2
E C11 H10 O6/MF
L12 1 S E3 AND L2
E CARBONIC ACID, (2-OXO-1,3-DIOXOLAN-4-YL)/CN
E CARBONIC ACID, (2-OXO-1,3-DIOXOLAN-4-YL) BUTYL
E CARBONIC ACID, (2-OXO-1,3-DIOXOLAN-4-YL) BUTYL/CN
E CARBONIC ACID, (2-OXO-1,3-DIOXOLAN-4-YL)BUTYL/CN
E CARBONIC ACID, (2-OXO-1,3-DIOXOLAN-4-YL)VINYLSULFONYLE
L13 58715 S ?CARBONIC ACID?/CNS
L14 2224125 S ?BUTYL?/CNS
L15 3006258 S ?SULFONYL?/CNS
L16 134 S L13 AND L14 AND L15
L17 81044 S ?VINYL?/CNS
L18 0 S L16 AND L17
L19 QUE ?ETHOXY?/CNS
L20 43 S L16 AND L19
E 2-OXO-1,3-DIOXOLAN-4-YL/CNS
E (2-OXO-1,3-DIOXOLAN-4-YL)/CN
E CARBONIC ACID, (2-OXO-1,3-DIOXOLAN-4-YL)BUTYL PHENYL ES
E CARBONIC ACID, (2-OXO-1,3-DIOXOLAN-4-YL)PHENYL BUTYL ES

FILE 'LREGISTRY' ENTERED AT 13:12:42 ON 29 MAY 2009

L21 STR
L22 0 S L21
L23 0 S L21 FUL

FILE 'REGISTRY' ENTERED AT 13:44:43 ON 29 MAY 2009

L24 0 S L21

L25 FILE 'LREGISTRY' ENTERED AT 13:45:11 ON 29 MAY 2009
STR L21

L26 FILE 'REGISTRY' ENTERED AT 13:46:15 ON 29 MAY 2009
6 S L25

FILE 'STNGUIDE' ENTERED AT 13:47:07 ON 29 MAY 2009

FILE 'REGISTRY' ENTERED AT 13:50:36 ON 29 MAY 2009
E 1,3-DIOXOLAN-2-ONE, 4-(PHENOXY-SULFONYL)BUTOXY-/CN

L27 FILE 'LREGISTRY' ENTERED AT 13:54:45 ON 29 MAY 2009
STR L25

L28 FILE 'REGISTRY' ENTERED AT 13:57:10 ON 29 MAY 2009
1 S L27
E CARBONIC ACID, (2-OXO-1,3-DIOXOLAN-4-YL)BUTYL PHENYL ES

FILE 'STNGUIDE' ENTERED AT 14:00:24 ON 29 MAY 2009

FILE 'REGISTRY' ENTERED AT 14:03:10 ON 29 MAY 2009
E (2-OXO-1,3-DIOXOLAN-4-YL)BUTYL PHENYL CARBONATE/CN

L29 FILE 'LREGISTRY' ENTERED AT 14:07:35 ON 29 MAY 2009
STR L27

L30 FILE 'REGISTRY' ENTERED AT 14:08:04 ON 29 MAY 2009
50 S L29
E C14 H15 O6/MF

L31 3 S E3
E C11 H17 O6 S/MF
E C14 H16 O6/MF

L32 1042 S E3

L33 157963 S 16.326.1/RID

L34 6092 S L14 AND L33

L35 QUE 46.150.18/RID

L36 2840 S L34 AND L35

L37 FILE 'LREGISTRY' ENTERED AT 14:38:12 ON 29 MAY 2009
STR L29

L38 FILE 'REGISTRY' ENTERED AT 14:41:17 ON 29 MAY 2009
22 S L37

L39 FILE 'LREGISTRY' ENTERED AT 14:48:39 ON 29 MAY 2009
STR L37

L40 FILE 'REGISTRY' ENTERED AT 14:55:53 ON 29 MAY 2009
0 S L39

L41 FILE 'LREGISTRY' ENTERED AT 14:56:15 ON 29 MAY 2009
STR L39

L42 FILE 'REGISTRY' ENTERED AT 14:57:59 ON 29 MAY 2009
0 S L41

L43 FILE 'LREGISTRY' ENTERED AT 14:58:40 ON 29 MAY 2009
STR L41

FILE 'REGISTRY' ENTERED AT 15:00:26 ON 29 MAY 2009

L44 50 S L43
L45 STR L39
L46 50 S L43
L47 2618 S L43 FUL
SAV L47 HEI053/A
L48 0 S L45 SSS SAM SUB=L47
L49 1 S L45 SSS FUL SUB=L47
SAV L49 HEI053A/A

FILE 'ZCA' ENTERED AT 15:49:05 ON 29 MAY 2009

L50 6 S L49

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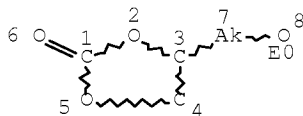
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FILE 'REGISTRY' ENTERED AT 16:06:18 ON 29 MAY 2009

=> D L49 QUE STAT

L43 STR



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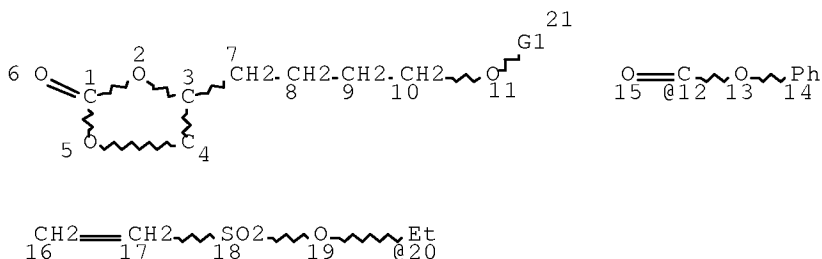
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GGCAT IS SAT AT 7
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GRAPH ATTRIBUTES:

RSPEC I
NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE

L45 STR



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NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
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RSPEC I
NUMBER OF NODES IS 21
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1 ANSWERS

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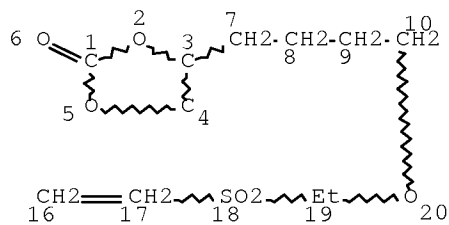
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L47      2618 SEA FILE=REGISTRY SSS FUL L43
L51      STR
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DEFAULT MLEVEL IS ATOM
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RSPEC I
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STEREO ATTRIBUTES: NONE
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100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

=> FIL ZCA
FILE 'ZCA' ENTERED AT 16:07:01 ON 29 MAY 2009
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=> D L50 1-6 IBIB ABS HITSTR HITRN RE

L50 ANSWER 1 OF 6 ZCA COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 149:450205 ZCA Full-text
TITLE: Cleaning detergent for hard surfaces, especially
for sanitary ceramics
INVENTOR(S): Ermel, Nadine; Middelhauve, Birgit; Schiedel,
Marc-Steffen; Lueken, Matthias
PATENT ASSIGNEE(S): Henkel A.-G. & Co. K.-G.a.A., Germany
SOURCE: Ger. Offen., 16pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 102007016389	A1	20081009	DE 2007-102007016389	200704 03
WO 2008119592	A1	20081009	WO 2008-EP51793	200802 14

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BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE,
EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN,
IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT,
LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
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WO 2008119833

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WO 2008-EP53996

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WO 2008-EP53997

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PRIORITY APPLN. INFO.:

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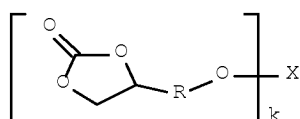
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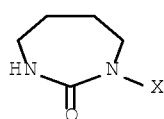
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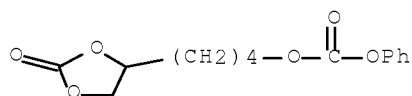
AB The title detergent comprises compds. (I) and (II) (R = C1-12 alkyl, k > 0 and X = polymer rest) prepared by reacting cyclic carbonates and ureas with containing OH- and primary and secondary amino groups-containing polymers, especially polyethyleneimines. A typical composition comprises 1% I {k = 1, R = CH₂ and X = CONH(CH₂)₃₈[CH₂CH(CH₃)O]CH₃}, 3% ethoxylated C12 fatty alcs., 2% octylsulfate, 0.3% xanthan gum, 5% citric acid, 3% ethanol, 0.1% a blue dye, 0.2% perfumes and water (balance).

IT 1067428-80-1

(soilproofing agent precursor; color-protecting laundry detergent for washing dyed textiles with dye transfer inhibitor)

RN 1067428-80-1 ZCA

CN Carbonic acid, 4-(2-oxo-1,3-dioxolan-4-yl)butyl phenyl ester (CA INDEX NAME)



IT 1067428-80-1

(soilproofing agent precursor; color-protecting laundry detergent for washing dyed textiles with dye transfer inhibitor)

RE

- (1) Anon; WO 02072055 A2 ZCA
- (2) Anon; WO 04031111 A1
- (3) Anon; WO 04031167 A1
- (4) Anon; WO 05058863 A1
- (5) Anon; JP 2001049293 A ZCA
- (6) Anon; JP 2001294890 A ZCA
- (7) Anon; JP 2001300286 A ZCA

L50 ANSWER 2 OF 6 ZCA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 149:450204 ZCA Full-text

TITLE: Cleaning detergent for hard surfaces, especially for sanitary ceramics

INVENTOR(S): Warkotsch, Nadine; Middelhauve, Birgit; Schiedel, Marc-Steffen; Lueken, Matthias

PATENT ASSIGNEE(S): Henkel A.-G. & Co. K.-G.a.A., Germany

SOURCE: PCT Int. Appl., 30pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2008119592	A1	20081009	WO 2008-EP51793	200802

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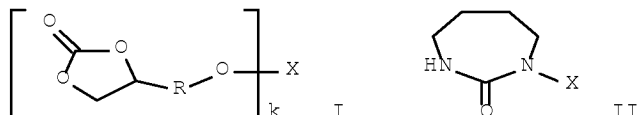
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 LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK,
 SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
 VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR,
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 DE 102007016389 A1 20081009 DE 2007-102007016389

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PRIORITY APPLN. INFO.: DE 2007-102007016389A

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OTHER SOURCE(S): MARPAT 149:450204
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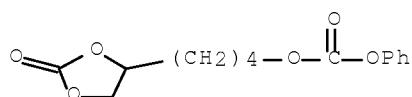
AB The title detergent comprises compds. (I) and (II) (R = C1-12 alkyl, k > 0 and X = polymer rest) prepared by reacting cyclic carbonates and ureas with containing OH- and primary and secondary amino groups-containing polymers, especially polyethyleneimines. A typical composition comprises 1% I {k = 1, R = CH₂ and X = CONH(CH₂)₃₈[CH₂CH(CH₃)O]CH₃}, 3% ethoxylated C₁₂ fatty alcs., 2% octylsulfate, 0.3% xanthan gum, 5% citric acid, 3% ethanol, 0.1% a blue dye, 0.2% perfumes and water (balance).

IT 1067428-80-1

(soilproofing agent precursor; color-protecting laundry detergent
 for washing dyed textiles with dye transfer inhibitor)

RN 1067428-80-1 ZCA

CN Carbonic acid, 4-(2-oxo-1,3-dioxolan-4-yl)butyl phenyl ester (CA
 INDEX NAME)



IT 1067428-80-1

(soilproofing agent precursor; color-protecting laundry detergent
 for washing dyed textiles with dye transfer inhibitor)

RE

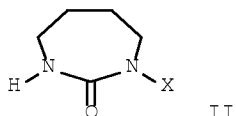
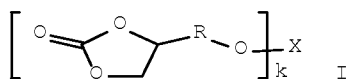
(1) Deutsches Wollforschinst; WO 2005058863 A 2005 ZCA

L50 ANSWER 3 OF 6 ZCA COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 149:427800 ZCA Full-text
 TITLE: Fixation of aromas from wash and cleaning
 compositions on hard and soft surfaces,
 especially on textiles
 INVENTOR(S): Warkotsch, Nadine; Middelhauve, Birgit;
 Schiedel, Marc-Steffen; Hilsmann, Juergen
 PATENT ASSIGNEE(S): Henkel A.-G. & Co. K.-G.a.A., Germany
 SOURCE: Ger. Offen., 16pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
DE 102007016383	A1	20081009	DE 2007-102007016383	200704 03
WO 2008119830	A2	20081009	WO 2008-EP53991	200804 03
WO 2008119830	A3	20090409		
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RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			

PRIORITY APPLN. INFO.: DE 2007-102007016383A 200704
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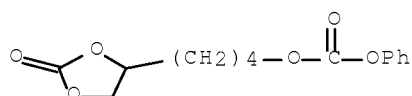
AB A cleaning composition used for fixation odorous substances on solid surfaces and, especially on textiles after washing comprises 0.05 - 5 g/L compds. (I) and (II) (R = C1-12 alkyl, k > 0 and X = polymer rest) prepared by reacting cyclic carbonates and ureas with containing OH- and primary and secondary amino groups-containing polymers, especially polyethyleneimines and polysiloxanes. A typical composition comprises 5% ethoxylated C12-18 fatty alcs, 12% ethoxylated C12-14 fatty alcs., 2% C12-14-alkylpolyglycosides, 5% C12-18 fatty acids, 0.2% sodium polyacrylate thickener, 5% glycerol, 1% sodium citrate, 1% I {k = 1, R =CH2, X = CONH(CH2)38[CH2CH(CH3)O]CH3}, 3.2% 50% NaOH, 1% perfumes and water (balance).

IT 1067428-80-1

(fixing agent precursor; color-protecting laundry detergent for washing dyed textiles with dye transfer inhibitor)

RN 1067428-80-1 ZCA

CN Carbonic acid, 4-(2-oxo-1,3-dioxolan-4-yl)butyl phenyl ester (CA INDEX NAME)



IT 1067428-80-1

(fixing agent precursor; color-protecting laundry detergent for washing dyed textiles with dye transfer inhibitor)

RE

- (1) Anon; WO 02072055 A2 ZCA
- (2) Anon; WO 04031111 A1
- (3) Anon; WO 04031167 A1
- (4) Anon; WO 05058863 A1
- (5) Anon; DE 19826327 A1 ZCA
- (6) Anon; JP 2001294890 A ZCA
- (7) Anon; WO 9800418 A1 ZCA

L50 ANSWER 4 OF 6 ZCA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 149:427799 ZCA Full-text

TITLE: Fixation of aromas from wash and cleaning compositions on hard and soft surfaces, especially on textiles

INVENTOR(S): Warkotsch, Nadine; Middelhauve, Birgit; Schiedel, Marc-Steffen; Hilsmann, Juergen

PATENT ASSIGNEE(S): Henkel A.G. & Co. K.-G.a.A., Germany

SOURCE: PCT Int. Appl., 27pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008119830	A2	20081009	WO 2008-EP53991	200804

WO 2008119830 A3 20090409

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DE 102007023874 A1 20081127 DE 2007-102007023874

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DE 102007038453 A1 20090219 DE 2007-102007038453

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PRIORITY APPLN. INFO.:

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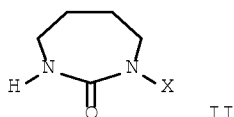
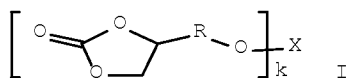
DE 2007-102007038453A

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OTHER SOURCE(S):

MARPAT 149:427799

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AB A cleaning composition used for fixation odorous substances on solid surfaces and, especially on textiles after washing comprises 0.05 - 5 g/L polycarbonate-, polyurethane- and/or polyurea-polyorganosiloxanes with a structure element -Y-A-C(:O)-A- (A = S, O and NR1, Y = ≥ 2 valent C1-1000 hydrocarbon rest, R1 = H or C1-40 hydrocarbon rest) and compds. (I) and (II) (R = C1-12 alkyl, k > 0 and X = polymer rest) prepared by reacting cyclic carbonates and ureas with containing OH- and primary and secondary amino groups-containing polymers, especially polyethyleneimines and polysiloxanes. A typical composition comprises 5% ethoxylated fatty alcs, 12% ethoxylated

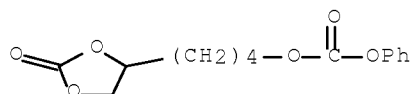
C12-14 fatty alcs., 2% C12-14-alkylpolyglycosides, 5% C12-18 fatty acids, 0.2% sodium polyacrylate thickener, 5% glycerol, 1% sodium citrate, 1% a fixing agent 1% perfumes and water (balance).

IT 1067428-80-1

(fixing agent precursor; color-protecting laundry detergent for washing dyed textiles with dye transfer inhibitor)

RN 1067428-80-1 ZCA

CN Carbonic acid, 4-(2-oxo-1,3-dioxolan-4-yl)butyl phenyl ester (CA INDEX NAME)



IT 1067428-80-1

(fixing agent precursor; color-protecting laundry detergent for washing dyed textiles with dye transfer inhibitor)

L50 ANSWER 5 OF 6 ZCA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 149:427796 ZCA Full-text

TITLE: Liquid laundry detergents with graying inhibitors

INVENTOR(S): Warkotsch, Nadine; Middelhauve, Birgit; Schiedel, Marc-Steffen; Eiting, Thomas

PATENT ASSIGNEE(S): Henkel A.-G. & Co. K.-G.a.A., Germany

SOURCE: Ger. Offen., 15pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 102007016382	A1	20081009	DE 2007-102007016382	20070403
WO 2008119831	A2	20081009	WO 2008-EP53994	20080403
WO 2008119831	A3	20090205		
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WO 2008119836 A2 20081009 WO 2008-EP54001

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WO 2008141858 A2 20081127 WO 2008-EP54003

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EP, OA

PRIORITY APPLN. INFO.:

DE 2007-102007016382A

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DE 2007-102007023872A

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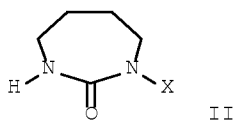
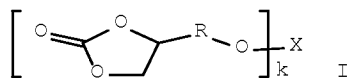
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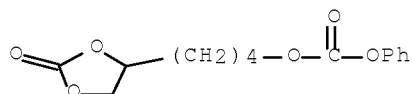
AB The title detergent for washing dyed textiles comprises a graying inhibitor (I) and (II) (R = C1-12 alkyl, $k > 0$ and X = polymer rest) prepared by reacting cyclic carbonates and ureas with containing OH- and primary and secondary amino groups-containing polymers, especially polyethyleneimines, 10 - 60% ≥ 2 anionic and nonionic surfactants and other additives. A typical composition comprises 10% sodium salts of C9-13 alkylbenzenesulfonate, 5% ethoxylated sodium laurylsulfate, 10% ethoxylated C12-18 fatty alcs., .% C12-14-alkylpolyglycosides, 8% sodium salts of C12-18 fatty acids, 5% glycerol, 1% trisodium citrate, 2% a polyacrylate thickener, 1% I { $k = 1$, R =CH₂, X = CONH(CH₂)₃[CH₂CH(CH₃)O]CH₃}, enzymes, dyes and water (balance).

IT 1067428-80-1

(graying inhibitor precursor; color-protecting laundry detergent for washing dyed textiles with dye transfer inhibitor)

RN 1067428-80-1 ZCA

CN Carbonic acid, 4-(2-oxo-1,3-dioxolan-4-yl)butyl phenyl ester (CA INDEX NAME)



IT 1067428-80-1

(graying inhibitor precursor; color-protecting laundry detergent for washing dyed textiles with dye transfer inhibitor)

RE

- (1) Anon; WO 02072055 A2 ZCA
- (2) Anon; WO 04031111 A1
- (3) Anon; WO 04031167 A1
- (4) Anon; WO 05058863 A1
- (5) Anon; DE 19826327 A1 ZCA
- (6) Anon; JP 2001049293 A ZCA
- (7) Anon; JP 2001300286 A ZCA
- (8) Anon; WO 9800418 A1 ZCA

L50 ANSWER 6 OF 6 ZCA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 149:427794 ZCA Full-text

TITLE: Color-protecting laundry detergent for washing

INVENTOR(S): dyed textiles with dye transfer inhibitor
 Warkotsch, Nadine; Middelhauve, Birgit;
 Schiedel, Marc-Steffen; Eiting, Thomas
 PATENT ASSIGNEE(S): Henkel A.-G. & Co. K.-G.a.A., Germany
 SOURCE: Ger. Offen., 17pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102007016391	A1	20081009	DE 2007-102007016391	20070403
WO 2008119832	A1	20081009	WO 2008-EP53995	20080403
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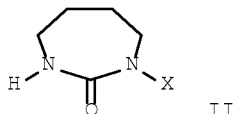
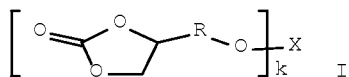
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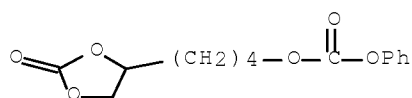
AB A color-protecting laundry detergent for washing dyed textiles comprises 0.01 - 5% a dye transfer inhibitor (I) and (II) (R = C1-12 alkyl, k > 0 and X = polymer rest) prepared by reacting cyclic carbonates and ureas with containing OH- and primary and secondary amino groups-containing polymers, especially polyethyleneimines. A typical composition comprises 10% ethoxylated C12-18 fatty alcs., 3% C12-14-alkylpolyglycosides, 0.2% a polyacrylate thickener, 3% ethanol, 5% citric acid, 0.4% phosphonic acid, 0.4% I {k = 1, R =CH2, X = CONH(CH2)38[CH2CH(CH3)O]CH3}, 3.2% 50% NaOH, 9% propylene glycol, 1% boric acid, 0.003% a silicone defoamer, 1.5% perfumes and water (balance).

IT 1067428-80-1

(dye transfer inhibitor precursor; color-protecting laundry detergent for washing dyed textiles with dye transfer inhibitor)

RN 1067428-80-1 ZCA

CN Carbonic acid, 4-(2-oxo-1,3-dioxolan-4-yl)butyl phenyl ester (CA INDEX NAME)



IT 1067428-80-1

(dye transfer inhibitor precursor; color-protecting laundry detergent for washing dyed textiles with dye transfer inhibitor)

RE

(1) Anon; WO 05058863 A1

(2) Anon; DE 19826327 A1 ZCA